

Active Recombinant Human CERK, Flag-tagged

Cat. No. CERK-508H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CERK (1-537(end)), fused with C-terminal Flag tag, was expressed in baculovirus expression system.
Species	Human
Source	Insect Cells
ProteinLength	1-537 a.a.
Description	CERK converts ceramide to ceramide 1-phosphate (C1P), a sphingolipid metabolite. Both CERK and C1P have been implicated in various cellular processes, including proliferation, apoptosis, phagocytosis, and inflammation.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 40 ug/ml Flag peptide, 20% glycerol and 3 mM DTT.
Bio-activity	142 pmole/min/μg. Assay conditions: CERK activity was measured at 37 oC for 25 min in a buffer (20 mM HEPES pH7.2, 80 mM KCl, 3 mM CaCl ₂ , 10 mM MgCl ₂ , 2 mM DTT, 5 μM ATP) using a μ-Octylglucoside mixed micellar assay with 100 μM Ceramide. ATP reduction was detected using Kinase-Glo [®] Luminescent Kinase Assay Platform (Promega, Madison, WI).
Molecular Mass	60 kDa
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability >6 months at –80°C

GENE INFORMATION

Gene Name CERK ceramide kinase [Homo sapiens]

Official Symbol CERK

Synonyms CERK; LK4; hCERK; dA59H18.2; dA59H18.3; ceramide kinase; lipid kinase 4; lipid kinase LK4; acylsphingosine kinase; NP_073603.2; EC 2.7.1.138

Gene ID 64781

mRNA Refseq NM_022766

Protein Refseq NP_073603

MIM 610307

UniProt ID Q8TCT0

Chromosome Location 22q13.31

Pathway Glycosphingolipid metabolism; Integrated Breast Cancer Pathway; Sphingolipid Metabolism

Function ATP binding; NAD⁺ kinase activity; ceramide kinase activity

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